

Access DB# 72573

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: NINA B/121 Examiner #: 68040 Date: 8/6/02
Art Unit: 1761 Phone Number 30 9-3879 Serial Number: 09/899050
Mail Box and Bldg/Room Location: C23 5B06 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Litigation
5,919,507

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No Litigation Reported

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	Type of Search	Vendors and cost where applicable
Searcher: <u>Mellerson</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>8-4483</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>C23/4 3D062</u>	Structure (#) _____	Questel/Orbit <u>22.13</u>
Date Searcher Picked Up: <u>8/6</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>8/6</u>	Litigation <input checked="" type="checkbox"/>	Lexis/Nexis <u>40.00</u>
Searcher Prep & Review Time: <u>2</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>6</u>	Other _____	Other (specify) _____

Current session 06/08/2002

(C) QUESTEL 1994

QUESTEL.ORBIT (TM) 1998

06/08/02 16*36*50

Last connection: 02/08/02 17*15*32

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Query/Command : file pluspat

INPADOC - Time in minutes : 0,14

The cost estimation below is based on Questel's
standard price list

Estimated cost : 0.15 USD

Cost estimated for the last database search : 0.15 USD

Estimated total session cost : 1.13 USD

Selected file: PLUSPAT

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New Patent Citation Commands & FAM Citation Report - see INFO PATCITE

Last update of file: 2002/07/31 (YYYY/MM/DD) 2002-30/UP (basic
update)

Search statement 1

Query/Command : us5919507/pn

**** SS 1: Results 1**

Search statement 2

Query/Command : prt full nonstop legalall

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US5919507 A 19990706 [US5919507]

TI - (A) Preservation compositions and methods for mushrooms

PA - (A) PENN STATE RES FOUND (US)

IN - (A) BEELMAN ROBERT B (US); DUNCAN ERIC M (US)
AP - US12090598 19980722 [1998US-0120905]
PR - US6067097P 19971002 [1997US-P060670]
 US12090598 19980722 [1998US-0120905]
IC - (A) A23L-003/34
EC - A23B-007/04K
 A23B-007/10
 A23B-007/154
 A23B-007/157
PCL - ORIGINAL (O) : 426268000; CROSS-REFERENCE (X) : 426303000
 426310000 426335000 426615000
DT - Corresponding document
CT - US3718482; US4066795; US4814192; US4959483; US5055313
STG - (A) United States patent
AB - Preservative compositions using toxicologically acceptable ingredients, and employing a pH of 9.0 or above for at least part of the process, for controlling the growth of spoilage bacteria and for preventing unwanted color changes in fresh and processed mushrooms. Aqueous solutions of preservatives are prepared and applied in multiple stages to the mushrooms, by spraying or immersion. More specifically, disclosed is a method for preserving fresh and processed mushrooms, comprising the steps of: contacting the mushrooms with an antimicrobial buffer solution having a pH of from about 9.5 to about 11.0; and rinsing the mushrooms one or more times immediately after the contacting step with pH-neutralizing buffer solutions of erythorbic acid and sodium erythorbate, in ratios of about 1:4, with a sufficient pH to return the mushrooms to the mushroom physiological pH of about 6.5.

1 / 1 LGST - ©LEGSTAT

PN - US 5919507 [US5919507]
AP - US 120905/98 19980722 [1998US-0120905]
DT - US-P
ACT - 19980722 US/AE-A
 APPLICATION DATA (PATENT)
 US 120905/98 19980722 [1998US-0120905]

19980722 US/AS02
 ASSIGNMENT OF ASSIGNOR'S INTEREST
 PENN STATE RESEARCH FOUNDATION, THE 304 OLD MAIN
 UNIVERSITY PARK, PENNSYLVANIA 1 * BEELMAN, ROBERT B. :
 19980630; DUNCAN, ERIC M. : 19980630

19990706 US/A
PATENT

UP - 2000-08

Query/Command : file inpadoc

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Selected file: INPADOC

Search statement 1

Query/Command : fam us5919507/pn

1 Patent Groups

**** SS 1: Results 9**

Search statement 2

Query/Command : famstate nonstop

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TI - VERFAHREN ZUR KONSERVIERUNG VON PILZEN
IN - BEELMAN ROBERT B [US]; DUNCAN ERIC M [US]
PA - PENN STATE RES FOUND [US]
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PR - US 60670/97-P 19971002 [1997US-P060670]
US 120905/98-A 19980722 [1998US-0120905]
WO 9820728/98(US)-W 19981002 [1998WO-US20728]
IC - A23B-007/04; A23B-007/10; A23B-007/154; A23B-007/157

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PN - AT 211619 [ATE211619]
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CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT
TREATIES
UP - 2002-30

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PN - EP 983004 [EP-983004]
AP - EP 98950857/98 19981002 [1998EP-0950857]
DT - EP-P
ACTE - 19981002 EP/AE-A
EP-APPLICATION
EP 98950857/98 19981002 [1998EP-0950857]

20000308 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH
SEARCH REPORT:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20000308 EP/AK-A4 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A

SUPPLEMENTARY SEARCH REPORT:
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20000308 EP/A1 [+]
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20000308 EP/A4 [+]
SUPPLEMENTARY SEARCH REPORT
20000111

20000308 EP/17P [+]
REQUEST FOR EXAMINATION FILED
19991220

20010404 EP/RTI1
TITLE (CORRECTION)
METHOD FOR PRESERVING MUSHROOMS

20010425 EP/RTI1
TITLE (CORRECTION)
METHOD FOR PRESERVING MUSHROOMS

20010516 EP/RTI1
TITLE (CORRECTION)
METHOD FOR PRESERVING MUSHROOMS

20010711 EP/17Q [+]
FIRST EXAMINATION REPORT
20010525

20020101 EP/REG; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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20020102 EP/RIC1
CLASSIFICATION (CORRECTION)
7A 23B 7/04 A, 7A 23B 7/10 B, 7A 23B 7/154 B, 7A 23B 7/157 B

20020102 EP/RIN1
INVENTOR (CORRECTION)
BEELMAN, ROBERT B. * DUNCAN, ERIC M.

20020109 EP/AK-B1 [+]
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SPECIFICATION:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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PATENT SPECIFICATION

20020109 EP/REF-R [+]
IN AUSTRIA REGISTERED AS:
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20020206 EP/REG; IE/FG4D
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
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20020715 EP/REG; CH/PL [-]
CH: PATENT CEASED
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IN - BEELMAN ROBERT B; DUNCAN ERIC M
PA - PENN STATE RES FOUND
AP - AU 96791/98-A 19981002 [1998AU-0096791]
PR - US 60670/97-P 19971002 [1997US-P060670]
US 120905/98-A 19980722 [1998US-0120905]
WO 9820728/98(US)-W 19981002 [1998WO-US20728]
IC - A23L-003/34

3 / 9 INPADOC - ©INPADOC

PN - AU 96791/98 A1 19990427 [AU9896791]
TI - PRESERVATIVE COMPOSITIONS AND METHODS FOR MUSHROOMS
IN - BEELMAN ROBERT B; DUNCAN ERIC M

PA - PENN STATE RES FOUND
AP - AU 96791/98-A 19981002 [1998AU-0096791]
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US 120905/98-A 19980722 [1998US-0120905]
WO 9820728/98(US)-W 19981002 [1998WO-US20728]
IC - A23L-003/34

4 / 9 INPADOC - ©INPADOC

PN - DE 69803453 C0 20020228 [DE69803453]
TI - VERFAHREN ZUR KONSERVIERUNG VON PILZEN
IN - BEELMAN ROBERT B [US]; DUNCAN ERIC M [US]
PA - PENN STATE RES FOUNDATION UNIV [US]
AP - DE 69803453/98-A 19981002 [1998DE-6003453]
PR - US 60670/97-P 19971002 [1997US-P060670]
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PN - DE 69803453 [DE69803453]
DT - DE-P
ACTE - 20020228 DE/REF-P
CORRESPONDS TO
(EP 983004 20020228 [EP-983004])
UP - 2002-09

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PN - EP 983004 [EP-983004]
AP - EP 98950857/98 19981002 [1998EP-0950857]
DT - EP-P
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EP 98950857/98 19981002 [1998EP-0950857]

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20000308 EP/AK-A4 [+]

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20000111

20000308 EP/17P [+]

REQUEST FOR EXAMINATION FILED

19991220

20010404 EP/RTI1

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20010425 EP/RTI1

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20010711 EP/17Q [+]

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US 120905/98-A 19980722 [1998US-0120905]
IC - A23L-003/34; A23B-007/04; A23B-007/10; A23B-007/154; A23B-007/157
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PN - EP 983004 A4 20000308 [EP-983004]
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AP - EP 98950857/98-A 19981002 [1998EP-0950857]
PR - WO 9820728/98(US)-W 19981002 [1998WO-US20728]
US 60670/97-P 19971002 [1997US-P060670]
US 120905/98-A 19980722 [1998US-0120905]
IC - A23L-003/34; A23B-007/04; A23B-007/10; A23B-007/154; A23B-007/157
DS - AT* BE* CH* CY* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC*
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PN - DE 69803453 [DE69803453]
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CORRESPONDS TO
(EP 983004 20020228 [EP-983004])
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PN - EP 983004 [EP-983004]
AP - EP 98950857/98 19981002 [1998EP-0950857]
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EP-APPLICATION
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INVENTOR (CORRECTION)
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UP - 2002-29

8 / 9 INPADOC - ©INPADOC

PN - US 5919507 A 19990706 [US5919507]
TI - PRESERVATION COMPOSITIONS AND METHODS FOR MUSHROOMS
IN - BEELMAN ROBERT B [US]; DUNCAN ERIC M [US]
PA - PENN STATE RES FOUND [US]
AP - US 120905/98-A 19980722 [1998US-0120905]
PR - US 120905/98-A 19980722 [1998US-0120905]
US 60670/97-P 19971002 [1997US-P060670]
IC - A23L-003/34

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PN - US 5919507 [US5919507]
AP - US 120905/98 19980722 [1998US-0120905]
DT - US-P
ACTE - 19980722 US/AE-A
APPLICATION DATA (PATENT)
US 120905/98 19980722 [1998US-0120905]

19980722 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
PENN STATE RESEARCH FOUNDATION, THE 304 OLD MAIN
UNIVERSITY PARK, PENNSYLVANIA 1 * BEELMAN, ROBERT B. :
19980630; DUNCAN, ERIC M. : 19980630

19990706 US/A
PATENT

UP - 2000-08

9 / 9 INPADOC - ©INPADOC

PN - WO 9917624 A1 19990415 [WO9917624]
TI - PRESERVATIVE COMPOSITIONS AND METHODS FOR MUSHROOMS
LA - ENG
IN - BEELMAN ROBERT B; DUNCAN ERIC M
PA - PENN STATE RES FOUND [US]
AP - WO 9820728/98(US)-A 19981002 [1998WO-US20728]
PR - US 60670/97-P 19971002 [1997US-P060670]
US 120905/98-A 19980722 [1998US-0120905]
IC - A23L-003/34
DS - AU* CA* AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

1 / 1 LEGALI - ©LEGSTAT

PN - WO 9917624 [WO9917624]
AP - WO 9820728/98(US) 19981002 [1998WO-US20728]
DT - WO-P
ACTE - 19981002 WO/AE-A
APPLICATION DATA
WO 9820728/98(US) 19981002 [1998WO-US20728]

19990415 WO/AK-A1 [+]
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH
SEARCH REPORT
AU CA

19990415 WO/AL-A1 [+]
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A
PUBLISHED APPLICATION WITH SEARCH REPORT
AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

19990415 WO/A1 [+]
PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE
INTERNATIONAL SEARCH REPORT

19990616 WO/121
EP: PCT APP. ART. 158 (1)
UP - 1999-26

PATNO IS 5919507

DATE: AUGUST 6, 2002
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PATNO IS 5919507

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LEVEL 1 - 1 PATENT

1. 5919507 , July 6, 1999 , Preservation compositions and methods for mushrooms
, Beelman, Robert B., State College, PA; Duncan, Eric M., State College, PA,
00120905, The Penn State Research Foundation, University Park, PA

CORE TERMS: mushroom, erythorbate, high-ph, sulfite, sodium, erythorbic, acid,
bacterial, ppm, buffer ...

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UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5919507

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July 6, 1999

Preservation compositions and methods for mushrooms

APPL-NO: 00120905

FILED-DATE: July 22, 1998

GRANTED-DATE: July 6, 1999

CORE TERMS: mushroom, erythorbate, high-ph, sulfite, sodium, erythorbic, acid, bacterial, ppm, buffer ...

ENGLISH-ABST:

Preservative compositions using toxicologically acceptable ingredients, and employing a pH of 9.0 or above for at least part of the process, for controlling the growth of spoilage bacteria and for preventing unwanted color changes in fresh and processed mushrooms. Aqueous solutions of preservatives are prepared and applied in multiple stages to the mushrooms, by spraying or immersion. More specifically, disclosed is a method for preserving fresh and processed mushrooms, comprising the steps of: contacting the mushrooms with an antimicrobial buffer solution having a pH of from about 9.5 to about 11.0; and rinsing the mushrooms one or more times immediately after the contacting step with pH-neutralizing buffer solutions of erythorbic acid and sodium erythorbate, in ratios of about 1:4, with a sufficient pH to return the mushrooms to the mushroom physiological pH of about 6.5.

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5919507 OR 5,919,507

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